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NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC AND OTHER USES

TECHNICAL FIELD OF THE INVENTION

This invention relates to polypeptides and the genes encoding them.

RELATED APPLICATIONS

This Application is a continuation of U.S. Application No. 09/803,589, filed March 9, 2001 which is a continuation-in-part (and claims the benefit of priority under 35 USC 120) of the following applications:

1. U.S. Application Serial No. 09/128,709 (filed August 4, 1998), which application claims priority from U.S. Serial No. 60/054,645 (filed August 4, 1997).
2. U.S. Application Serial No. 09/130,491 (filed August 6, 1998), which application claims priority from U.S. Serial No. 60/054,966 (filed August 6, 1997) and U.S. Serial No. 60/058,108 (filed September 5, 1997).

3. U.S. Application Serial No. 09/388,280 (filed September 1, 1999), a divisional of U.S. Application Serial No. 09/130,491 (filed August 6, 1998), which application claims priority from U.S. Serial No. 60/054,966 (filed August 6, 1997) and U.S. Serial No. 60/058,108 (filed September 5, 1997).

4. U.S. Application Serial No. 09/388,279 (filed September 1, 1999), a divisional of U.S. Application Serial No. 09/130,491 (filed August 6, 1998), which application claims priority from U.S. Serial Number 60/054,966 (filed August 6, 1997) and U.S. Serial Number 60/058,108 (filed September 5, 1997). The entire teachings of U.S. Application Nos. 09/803,589, 09/128,709, 09/130,491, 09/388,280 and 09/388,279 are incorporated herein by reference.

SUMMARY OF THE INVENTION

The invention relates to the discovery and characterization of the genes encoding Tango-71, Tango-79, and Tango-81. Tango-71 (SEQ ID NO:1; FIG. 5) encodes a human protein (SEQ ID NO:2; FIG. 5) that is approximately 90% identical to murine ADAMTS-1 (SEQ ID NO:8; FIG. 6). Tango-79 cDNA (SEQ ID NO:3; FIG. 1) was isolated from a human fetal brain library (Clontech; Palo Alto, CA) and encodes a 615 amino acid protein (SEQ ID NO:4; FIG. 1) that is homologous to *Drosophila Melanogaster* slit protein